## 2 Quiz 2 MAT 1275 Professor Chiu



- ullet This quiz consists of  ${f 2}$  questions, each worth 5 points, for a total of  ${f 10}$  points.
- You have 10 minutes to complete the quiz.
- Show all work and justify your answers.
- Scientific calculators are allowed.
- Wishing you success.
- 1. Combine and reduce:

$$\frac{3}{10} - \frac{7}{6}$$
 3 answer the question

Find the 'same' unit 
$$=\frac{3\cdot 3}{10\cdot 3} - \frac{7\cdot 9}{6\cdot 9}$$
 (Common denominator): 10.3

fact of 
$$10: 10,20,30,40$$
 =  $\frac{9}{30} - \frac{35}{30} = \frac{9-35}{30}$ 

2. Evaluate 
$$\frac{-29}{5} \div 3 - \frac{1}{2}$$

$$\frac{4}{30} = \frac{30}{2 \times 15} = \frac{2 \times 15}{2 \times 15}$$

$$-\frac{29}{5} = -\frac{29}{5}$$

• divided by 3 
$$\Rightarrow$$
 multiply  $\frac{1}{3}$ 

answer = 
$$-\frac{29}{5} \times \frac{1}{3} + \frac{4}{3}$$

$$= -\frac{29x1}{5x3} + \frac{4}{3}$$

$$= -\frac{29x1}{5x3} + \frac{4x5}{3x5}$$

$$-\frac{4}{3} + 0 \text{ the opposite} = -\frac{29}{15} + \frac{20}{15} = \frac{-29+20}{15} = \frac{-9}{15}$$

$$= -(-\frac{4}{3}) = +\frac{4}{3} \text{ (to the right) }$$

$$= 3\times3$$

$$= 3\times3$$

$$= 3\times3$$

$$= -\frac{3\times3}{3\times5} = -\frac{3}{3}\times\frac{3}{5} = -\frac{3}{5}$$